CASE STUDY

TOBRUK: MARSA EL HARIGA OIL TERMINAL JETTY PILE INSPECTION

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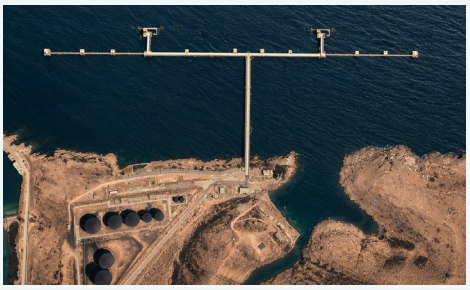
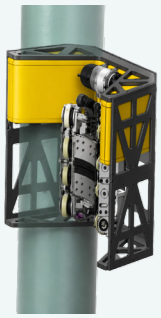
SONOMATIC

INTRODUCTION



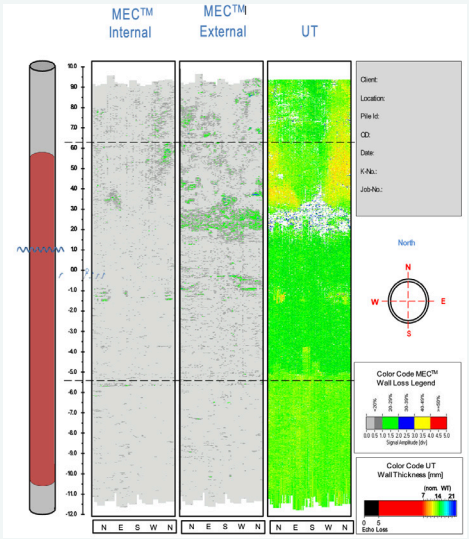
Marsa El Hariga Oil Terminal, located on the southern coast of the Tobruk trading port, features an 800m T-shaped jetty connected to shore by a 200m access arm. To support ongoing asset integrity management, a comprehensive subsea inspection of the jetty's support piles was undertaken.

PROCESS



The inspection scope included up to 420 jetty piles, with inspections conducted from EL -2m to the seabed using Sonomatic's Subsea MEC™ Combi-Crawler, deployed from a support vessel alongside the jetty.

In addition to MEC™ inspection technology, an Eddy Current sensor array was integrated into the crawler to inspect areas where seam welds and circumferential welds intersected. These locations were of particular interest due to the potential presence of circumferentially oriented cracking. The combined inspection approach enabled efficient screening for corrosion, wall loss and weld-related defects while minimising operational disruption.



OUTCOME

The inspection delivered a comprehensive condition assessment of all subsea piles, providing high-resolution integrity data to support future maintenance and asset management decisions. The MEC™ technology combined with the Eddy Current sensor array enabled efficient detection of corrosion and wall loss while scanning through coatings, helping the asset owner gain confidence in the ongoing structural integrity of the terminal.